

Title (en)

Welding member and welding method

Title (de)

Schweissgegenstand und Schweissverfahren

Title (fr)

Élément et procédé pour le soudage

Publication

EP 0882543 B1 20031126 (EN)

Application

EP 98105238 A 19980323

Priority

- JP 14898697 A 19970606
- JP 14898797 A 19970606
- JP 33548197 A 19971205
- JP 1708598 A 19980129

Abstract (en)

[origin: EP0882543A2] A water-repellent film is applied on to the surface of a welding member such as of a welding backing member disposed backside a joint defined between two mating welding bevels, a welding bevel of a base member to be welded, and a coated welding rod formed by coating a metallic core wire with a flux. The water-repellent film is formed of a hydrophobic material having a contact angle of 90 DEG or above and providing minute concavities and convexities. In a highly humid environment, during rainfall or in water, welding can be effected without weld defects such as blow holes, cracks and the like.

IPC 1-7

B23K 35/02; **B23K 35/00**; **B23K 35/365**; **B23K 9/035**

IPC 8 full level

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CPC (source: EP US)

B23K 9/0061 (2013.01 - EP US); **B23K 9/035** (2013.01 - EP US); **B23K 35/0255** (2013.01 - EP US); **B23K 35/0261** (2013.01 - EP US); **B23K 37/06** (2013.01 - EP US)

Citation (examination)

- JP H01233093 A 19890918 - NIPPON STEEL CORP
- US 5272240 A 19931221 - HARUVY YAIR [US], et al

Cited by

CN110253109A; GB2446380A; FR2825306A1; DE102015109183A1; US8110054B2; WO02096595A3

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EP 98105238 A 19980323; DE 69819963 T 19980323; US 4484898 A 19980320